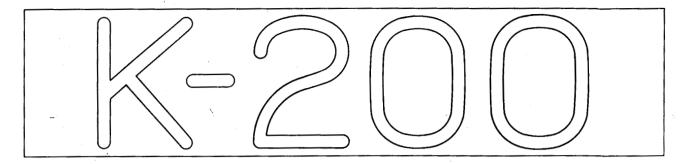
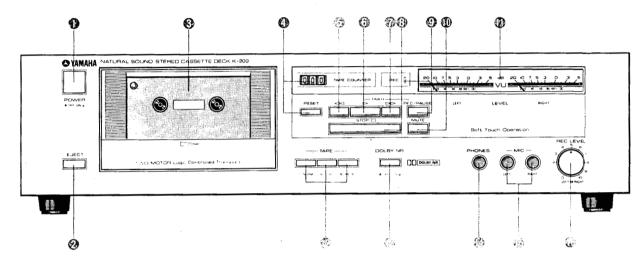
# STEREO CASSETTE DECK



# SERVICE MANUAL

### FRONT PANEL



- Power Switch (POWER)
- Cassette Holder
- Tape Counter/Reset Button (TAPE COUNTER/RESET)
- Play Button ( ▷ )
- Fast-Forward Button ( ▷ )
- Stop Button (□)

- Record-Standby/Pause Button (REC/PAUSE)
- Record-Muting Button (MUTE)
- VU Level Meters (LEVEL)
- Tape Selector Switches (TAPE)
- Dolby NR Switch (DOLBY NR)
- Headphone Jack (PHONES)
- Microphone Jacks (MIC)
- Record Level Control (REC LEVEL)

### **CONTENTS**

Rear Fanel	1
Names of the Parts	2
Disassembly Instructions	3
General Adjustments	4
Specifications	7
Block Diagram	
Performance Chart for Mechanism Logic	8
Printed Circuit Board Pattern-side Layout	
Printed Circuit Board Parts-side Components Layout/Wiring	11
Schematic Diagram	12

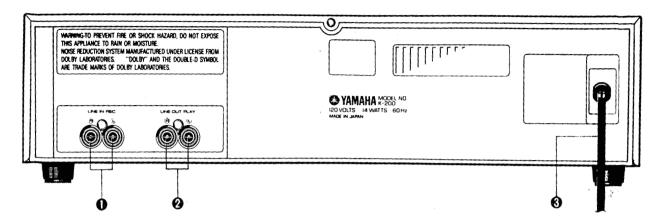
SINCE 1887 YAMAHA
NIPPON GAKKI CO., LTD. HAMAMABU, JAPAN

Printed in Japan 5.82 A 2.65K

004463

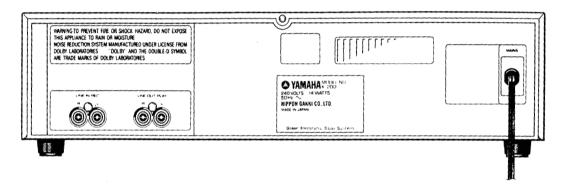
### K-ZUU REAR PANEL

### U.S.A. and Canadian Models

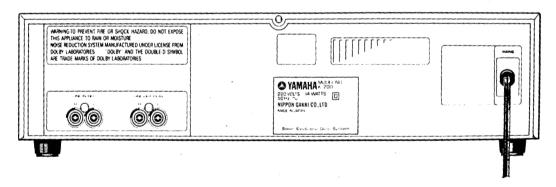


- Record Input Jacks (LINE IN/REC)
- Playback Output Jacks (LINE OUT/PLAY)
- Power Cord

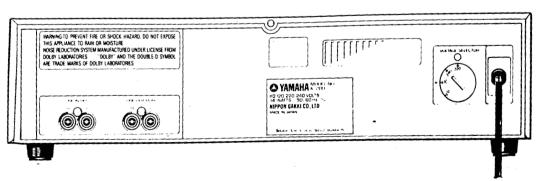
### Australian and British Models



### European Model



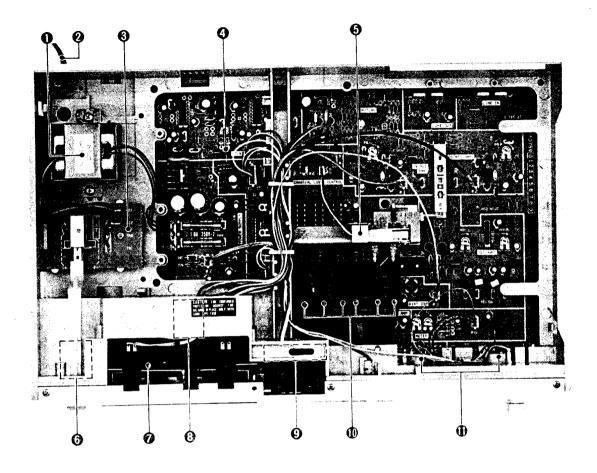
### General Model



1

### **MNAMES OF THE PARTS**

### Top View

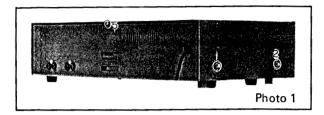


- Power transformer
- Power cord
- Main circuit board (2)
- Main circuit board (1)
- Auto-Shut off solenoid
- Capstan drive motor
- Transport mechanism TM-5A
- Reel drive motor
- (3) Main circuit board
- Switch rods
- VU meters

### **■ DISASSEMBLY INSTRUCTIONS**

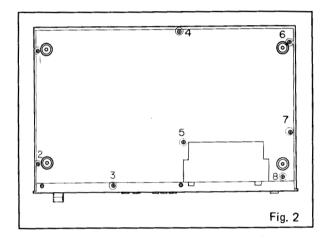
### 1. Removal of Top Cover

Remove screws 1 and 2 shown in photo 1 (4 screws each right and left) and remove plastic rivet (5). The top cover can now be removed.



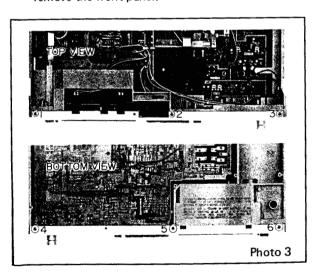
### 2. Removal of Bottom Cover

Remove screws  $\bigcirc 1 \sim \bigcirc 8$  shown in fig 2, and remove the bottom cover.



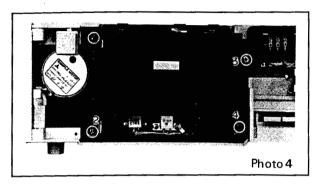
### 3. Removal of Front Panel

- a) Remove the top and bottom covers per steps 1, and 2.
- b) Remove screws  $\bigcirc 1 \sim \bigcirc 6$  shown in photo 3, and remove the front panel.



### 4. Removal of Transport Mechanism

- a) Remove the front panel according to step 3.
- b) Remove the cassette cover.
- c) Unplug all connectors from the mechanism section.
- d) Remove screws  $1 \sim 4$  shown in photo 4, and remove the transport mechanism.

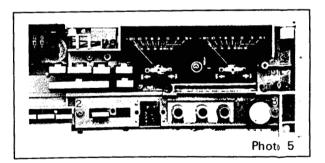


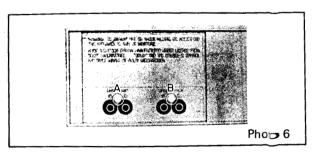
### 5. Removal of VU Meters

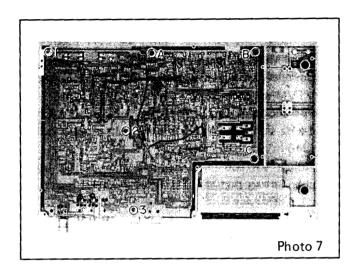
- a) Remove the front panel according to step 3.
- b) Remove screw 1 shown in photo 5, and remove the VU meters.

### 6. Removal of Circuit Board

- a) Remove the top and bottom covers and the front panel according to steps 1, 2 and 3.
- b) Remove screws (2) and (3) shown in photo 5.
- c) Remove the plastic rivets (A) and (B) shown in photo 6.
- d) Remove screw  $\bigcirc$ 1 shown in photo 7, and remove plastic rivets  $\bigcirc$ A  $\bigcirc$ C .
- e) After removing all switch rods, the circuit board can be detached.







### GENERAL ADJUSTMENTS

### Before Adjustment

- 1. Set the Dolby NR switch to OFF.
- As dirty or magnetized heads can deteriorate measurement results for various parameters, be sure to perform head demagnetizing and head cleaning, especially before adjusting frequency response or head azimuth.

### **Designated Test Tapes**

TEAC . . . . . MTT-111 (3 kHz)

TEAC . . . . MTT-212C (160 nWb/m)

or MTT-212 (250 nWb/m)

TEAC . . . . MTT-114 (10 kHz)

TEAC . . . . MTT-216 (3180 + 120 μs)

or MTT-316 (3180 + 70 μs)

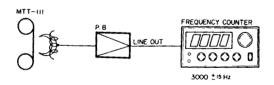
TDK . . . . SA C-60 (CrO<sub>2</sub> tape)

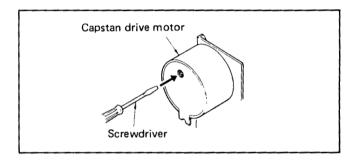
TDK . . . . . AD C-60 (LH tape)

TDK . . . . . MA C-60 (Metal tape)

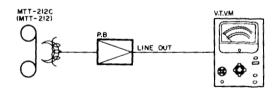
### Playback Adjustments

- 1. Tape Speed Adjustment
- Connect a frequency counter to the left or right channel LINE OUT.
- b) Play test tape TEAC MTT-111 (3 kHz) and adjust the semi-fixed VR in the drive motor base for a frequency counter reading of 3000 Hz <sup>+0</sup><sub>-20</sub>Hz.



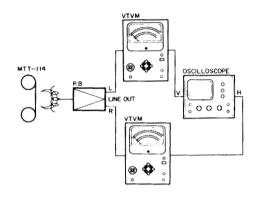


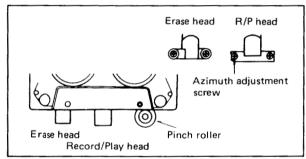
- 2. Playback Level Adjustment
- a) Connect a VTVM to LINE OUT.
- b) Play test tape TEAC MTT-212C (160 nWb/m) and adjust VR 101 (left channel) and VR 102 (right channel) for a LINE OUT level reading of -7±1 dBm (346 mV).



### 3. Head Azimuth Adjustment

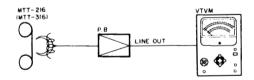
- a) Remove the cassette cover.
- b) Connect two VTVMs and an oscilloscope to the left and right channels of LINE OUT.
- c) Play test tape TEAC MTT-114 (10 kHz) and turn the R/P head azimuth adjustment screw so that the outputs of both left and right channels are maximum, equal, and in phase.
- d) After adjustment, apply screw lock paint.

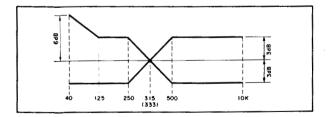




### 4. Playback Frequency Response Check

- a) Connect a VTVM to LINE OUT.
- b) Play test tape TEAC MTT-216 (3180 + 120  $\mu$ s: LH) or MTT-316 (3180 + 70 $\mu$ s: CrO<sub>2</sub>) and confirm that the 10-kHz reading is within ±3 dB of the 315-Hz reading.

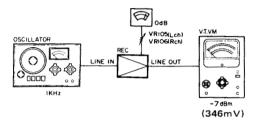




### Recording Adjustments

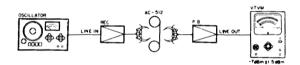
### 1. Level Meter Adjustment

- Connect an audio oscillator to LINE IN and a VTVM to LINE OUT.
- b) Put the deck into the record mode and apply a 1-kHz signal to LINE IN which will cause -7 dBm (346 mV) at the LINE OUT.
- Adjust VR 105 (left channel) and VR 106 (right channel) so that the VU meter pointers read 0 dB ±1.5 dB.



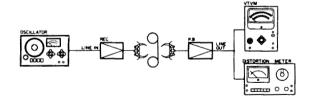
### 2. Record Level Adjustment

- a) Establish the same connections as for level meter adjustment, above.
- b) Put the deck into the record mode and apply a 315-Hz (1-kHz, 333-Hz) signal to LINE IN which will read -7 dBm (346 mV) at LINE OUT.
- Use the TDK SA C-60 CrO<sub>2</sub> tape and record this signal.
- d) Adjust VR 103 (left channel) and VR 104 (right channel) so that the recorded signal reads -7 dBm (346 mV) upon playback.

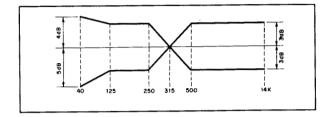


### 3. Check of Recording Bias Current

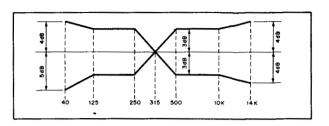
- \*Set the DOLBY NR switch to OFF.
- a) Connect an audio oscillator to LINE IN and a VTVM and distortion meter to LINE OUT.
- b) Apply a signal to LINE IN which will read -27 dBm (34.6 mV, -20 VU) at LINE OUT.



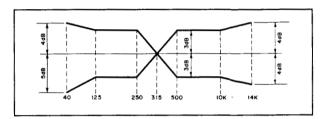
- CrO<sub>2</sub> Position
- a) Use a TDK SA C-60 CrO<sub>2</sub> tape and adjust VC 101 (trimmer capacitor, L and R) so that the 14-kHz record/playback level is within ±3 dB of the 1-kHz (315-Hz, 333-Hz) record/playback level.
- b) At this time, distortion at 315-Hz (1-kHz, 333-Hz), 0 VU must be below 2.5%.



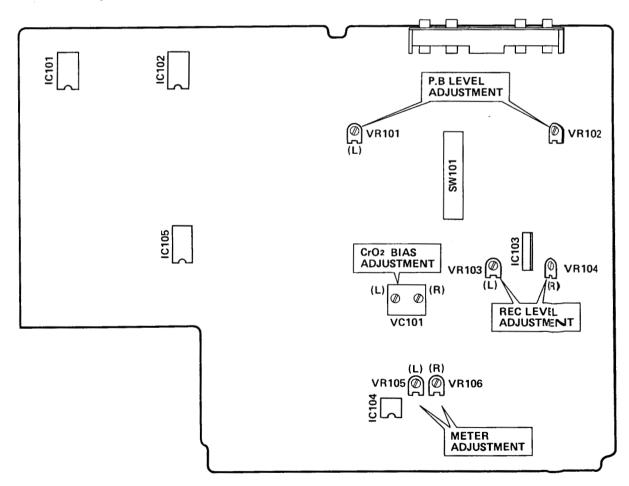
- LH Position
- Use a TDK AD C-60 (LH) tape and check that the 14-kHz record/playback level is within ±4 dB of the 315-Hz (1-kHz, 333-Hz) record/playback level.



- METAL Position
- Use a TDK MA C-60 metal tape and check that the 14-kHz record/playback level is within ±4 dB of the 315-Hz (1-kHz, 333-Hz) record/playback level.



### Location of Adjustment Points





### **SPECIFICATIONS**

Track Configuration . . . . . 4 track , 2 channel stereo DC servo motor (capstan) Flat torque DC motor (reel) Hard permalloy rec/playback head Double gap ferrite erase head 4.75 cm/sec Wow and Flutter WRMS . . . . . . . . . . . . . . . . 0.05% **DIN-45507** . . . . . . . . . 0.08% Signal-to-Noise Ratio (Dolby off, CrO<sub>2</sub> tape) . . . better than 58 dB (Dolby on, CrO<sub>2</sub> tape) . . . better than 66 dB Frequency Response Normal tape (-20 dB) . . . . 40 ~ 15,000 Hz ± 3 dB 
 $CrO_2$  tape (-20 dB)
  $40 \sim 15,000 \text{ Hz} \pm 3 \text{ dB}$  

 Metal tape (-20 dB)
  $40 \sim 15,000 \text{ Hz} \pm 3 \text{ dB}$ 
 $40 \sim 15,000 \text{ Hz} \pm 3 \text{ dB}$ 
(0 dB) . . . . . . 40 ~ 12,000 Hz ± 3 dB Overall Distortion . . . . less than 1.0% (315 Hz) Metal tape Channel Separation . . . . better than 35 dB (1K Hz) Crosstalk . . . . . . . better than 60 dB (125 Hz)

Erasure rate . . . . . . better than 60 dB (400 Hz)

Input Sensitivity/Impedance

 Mic
 0.3mV/5K ohms

 Line
 60 mV/80K ohms

Output Level

 Phones
 0.6mW/8 ohms

 Power Supply
 AC 120V, 60 Hz (U,C)

AC 220V, 50 Hz (G) AC 240V, 50 Hz (A,B) AC 110/120/220/240V,

50/60 Hz (R)

Power Consumption . . . . . 14 W

**Dimensions (W x H x D)** . . . 435 x 112 x 278 mm

(17-1/8 x 4-13/32 x 11")

Weight 4.5 kg (9.9 lbs)

Specifications subject to change without notice. TM Dolby Laboratories Licensing Corp.

U: U.S.A. Model

C: Canadian Model

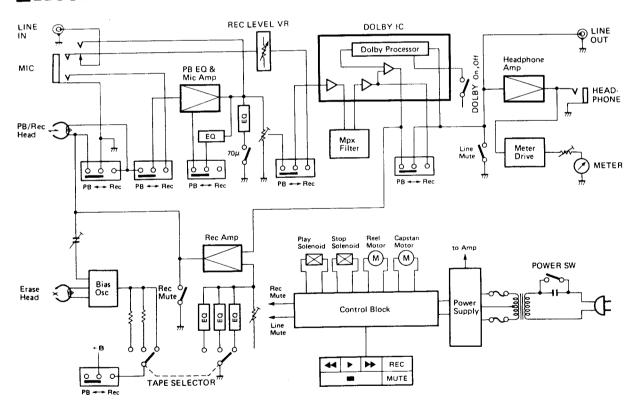
R : General Model

A : Australian Model

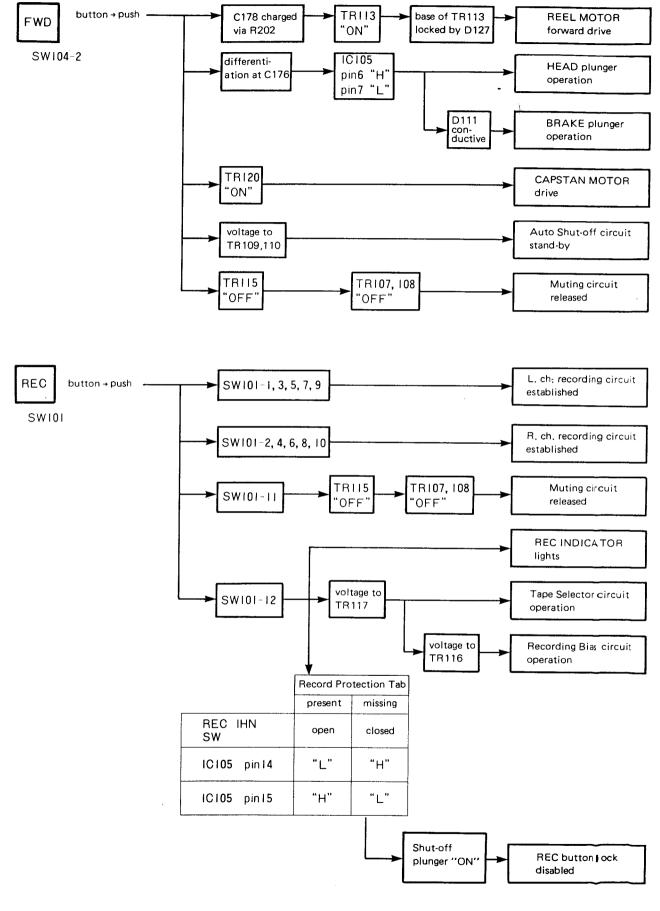
B: British Model

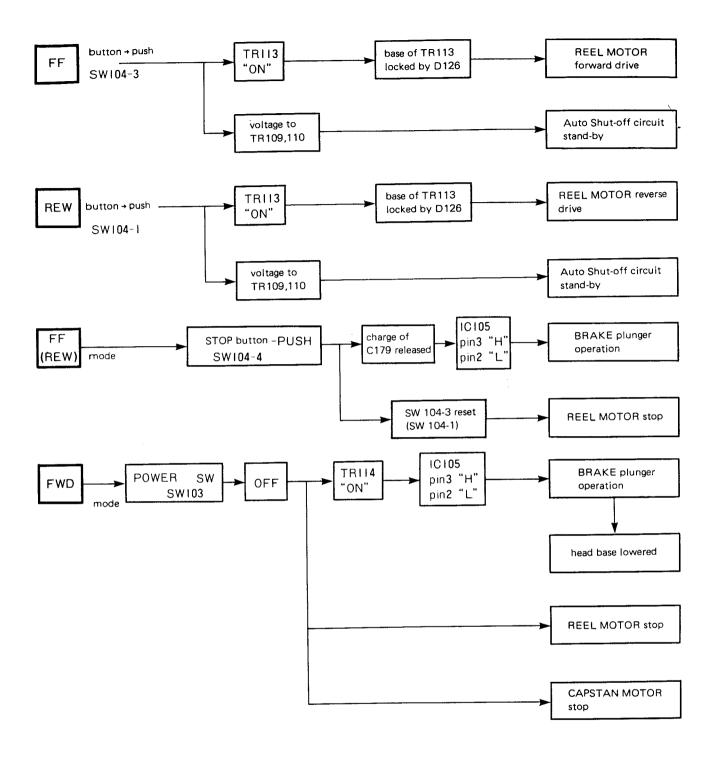
G: European Model

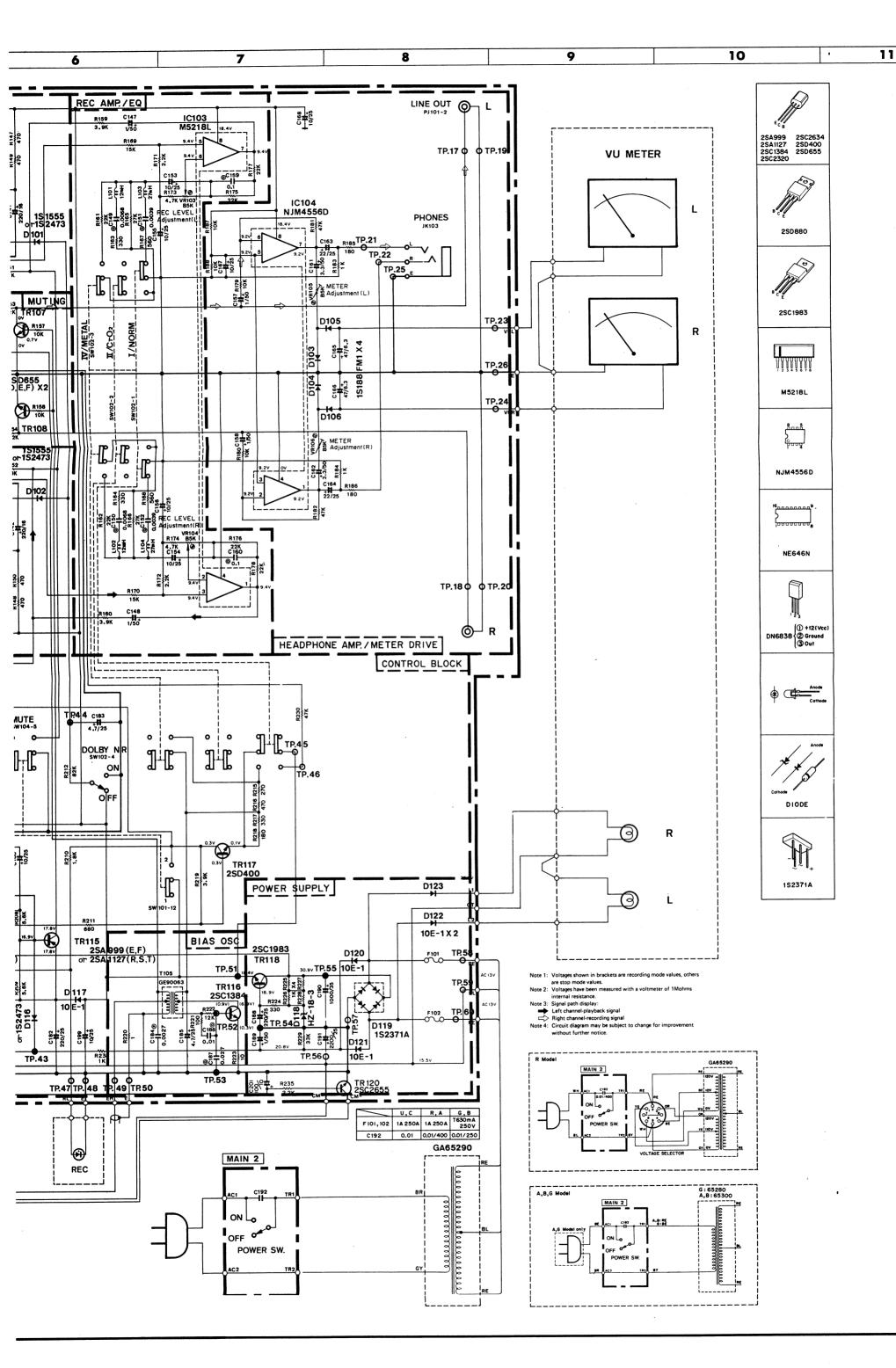
### ■ BLOCK DIAGRAM

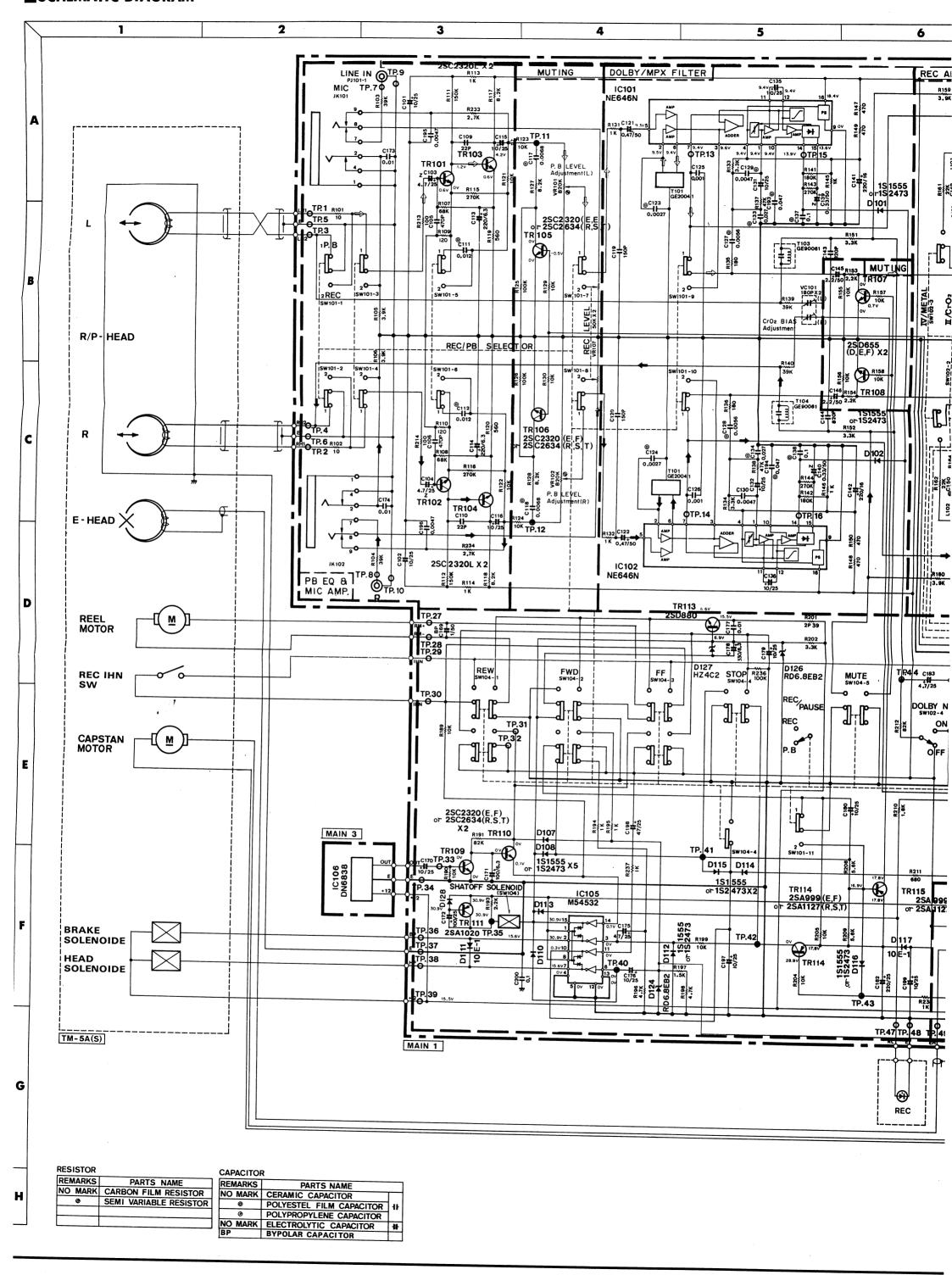


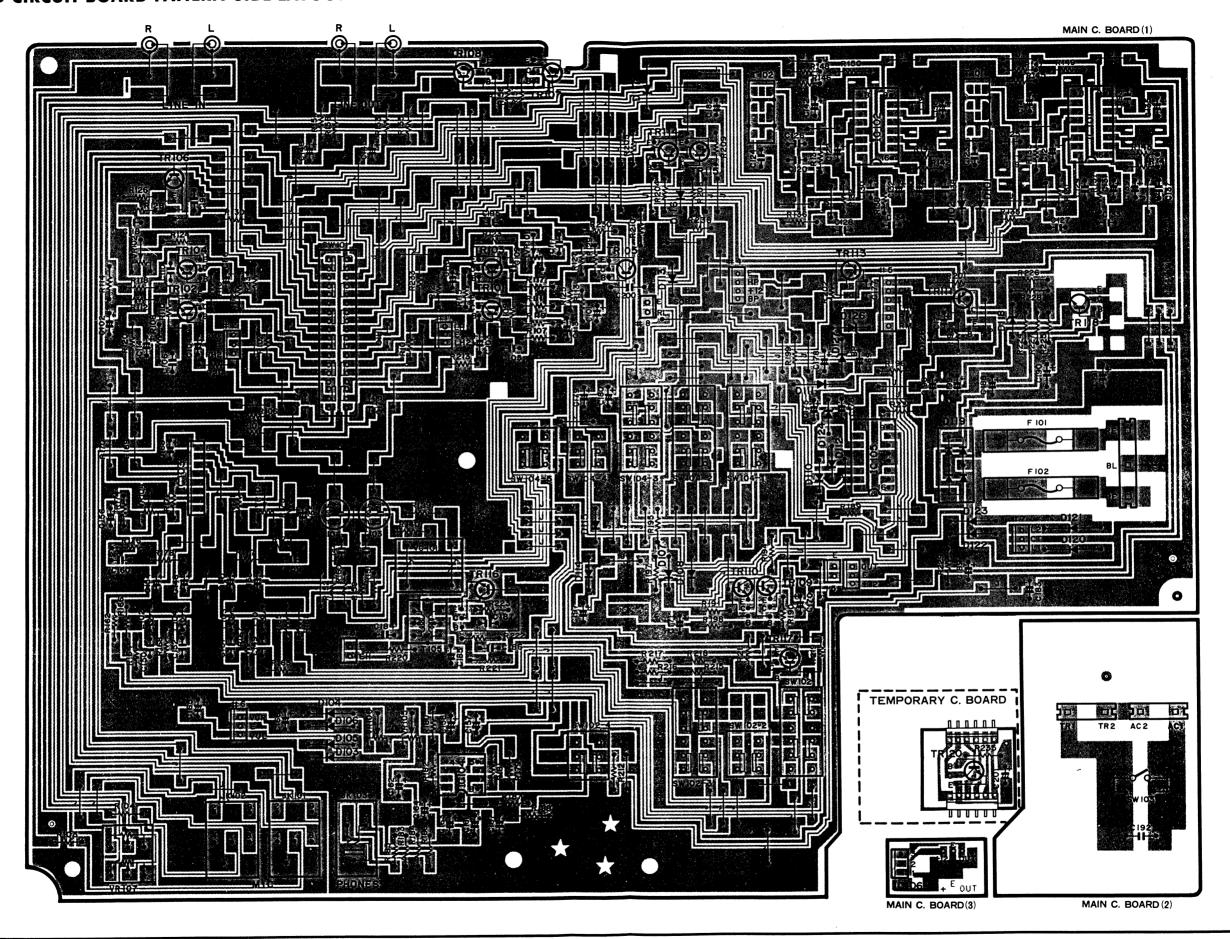
### ■PERFORMANCE CHART FOR MECHANISM LOGIC



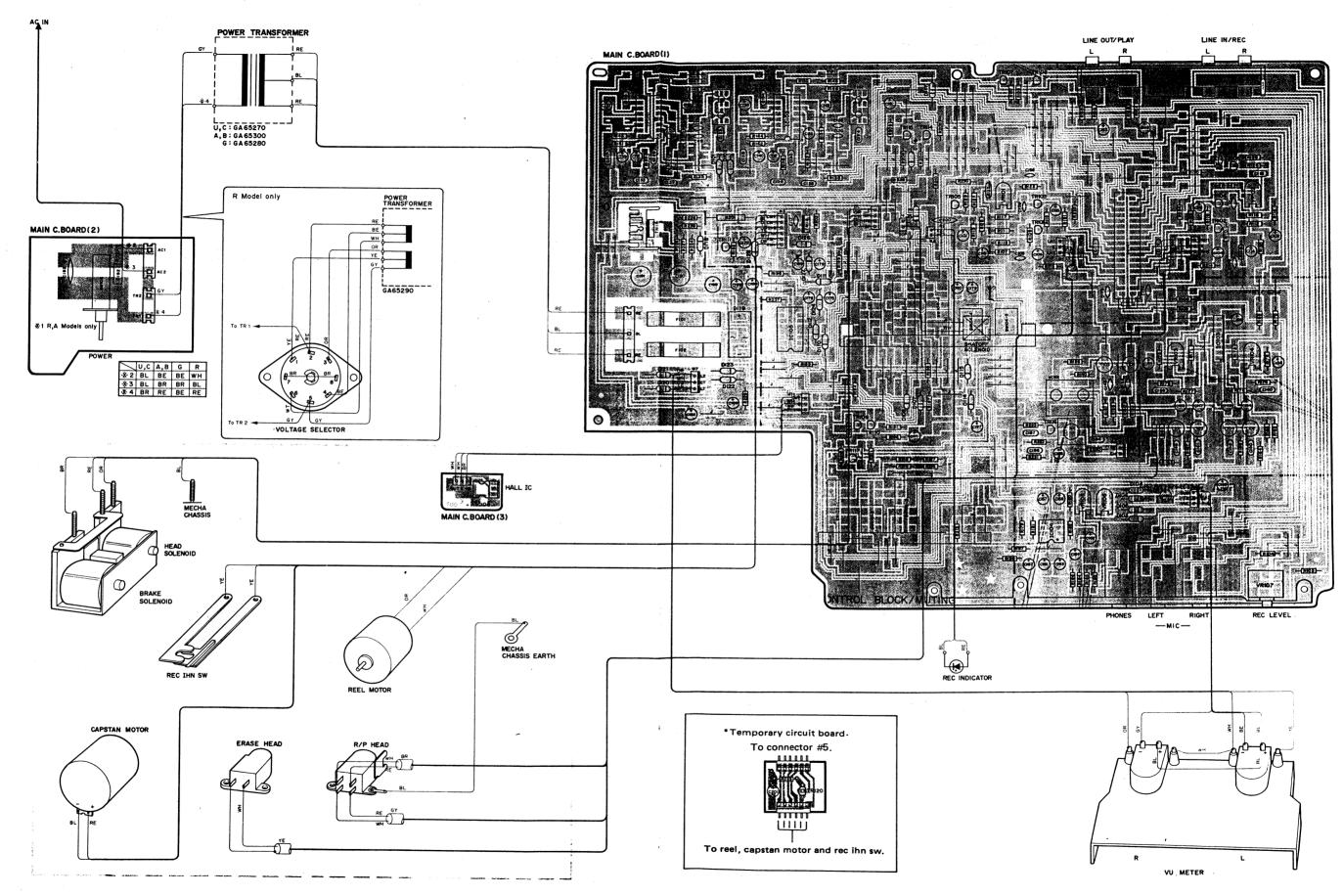








# ■PRINTED CIRCUIT BOARD PARTS-SIDE COMPONENTS LAYOUT/WIRING



# PARTS LIST

# K-200

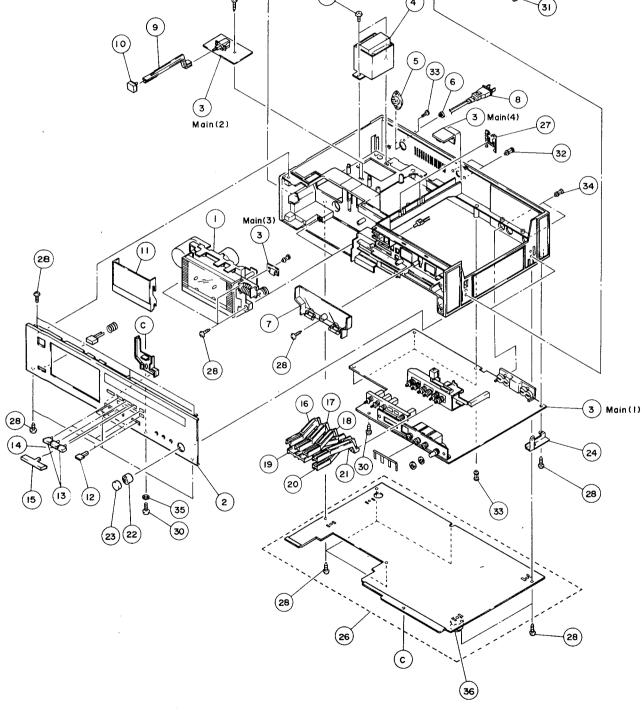
# STEREO CASSETTE DECK

<b>CONTENTS</b>	Page
EXPLODED VIEW(Allover)	······
■PARTS LIST (Allover) ······	
EXPLODED VIEW (Mechanism)	
PARTS LIST (Mechanism) ·····	Λ
PARTS LIST (Circuit Board)	
Main Circuit Board	

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# EXPLODED VIEW (Allover) 31 28 29 4 3 Main (2) 3 Main (2) 3 Main (2)

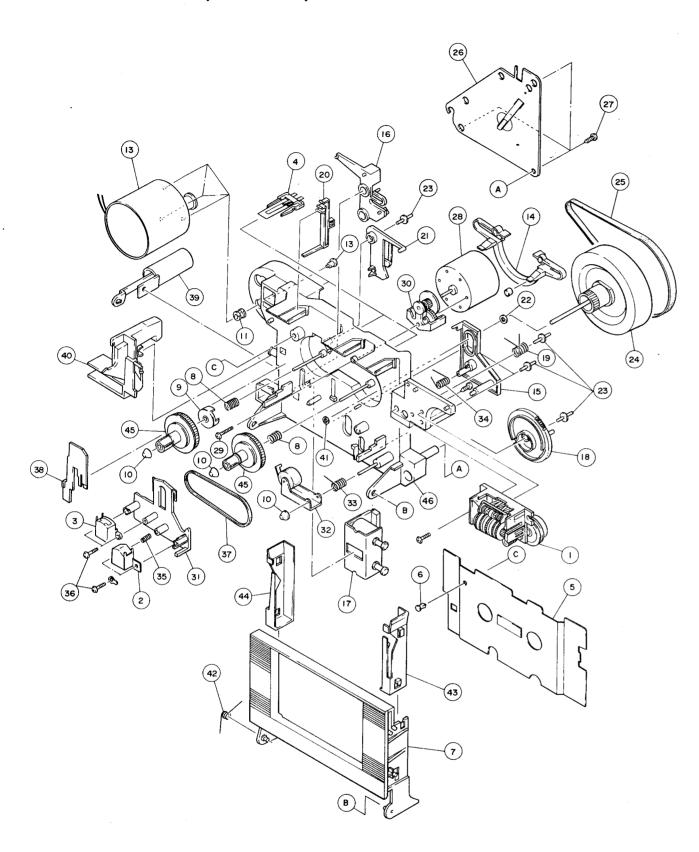


	Ref. No.	Part No.	Description	<del></del>	(部 品 名)	Remarks	Common model	Markets
*	<b>—</b> —	SM 60 18 00	Cassette Meahanism	TM-5A(S)	カセットメカ総組立			
*		SM 60 19 00		" (B)	ıı .	Black Model		G
*	⊢—	NB 60 57 50	<del></del>		パネルユニット	1		
*	-	NB 60 57 60			. "	Black Model		G
*	<del></del>	<del>                                     </del>	Main Circuit Board		メインシート	+		J
*	"	NA 07 89 10			#		-	U,C
*	"	NA 07 89 20			#	<del> </del>		G,B
*	•#	NA 07 89 30			tt			R,A
*	"	NA 07 89 40			II .	Black Model		G
*	4	<del></del>	Power Transformer		電源トランス			J
*		GA 65 27 00			#			UC
*		GA 65 28 00			n			G
*		GA 65 30 00			и			A,B
*		GA 65 29 00			n			R
		<del>                                     </del>	Voltage Selector		電圧切替器			R
		CB 06 86 30		SR-3P-4	コードストッパー	1		J,U,C
*		CB 60 99 50		SR-5N-4	ıı .			R,A,G,B
*	7	Ji 00 12 50		(S)	VUメーター			
*	n	Ji 00 12 60	*** *	(B)	И	Black Model		G
	8	MG 00 04 10		Black 2.2m 7A/125V	電源コード			J
	"	MG 00 07 80	ıı	" 2m 6A/250V	"			R
		MG 00 08 40	n	" * 10A/125V	"	Inter-		U,C
*		MG 00 12 40	********	H N	"	changeable		U,C
	"	MG 00 09 20	11	Gray 2.5m 7.5A/250V	#			Α
	"	MG 00 09 50	11	" 2m 2.5A/250V	II .			G
	"	MG 00 10 00	"	Black 2m 6A 300/500V	и .			В
*	9	CB 60 80 90	Rod Power		ロッド、POWER			
*	10	CB 61 02 30	Button, Power	•	パワーボタン			
*	"	CB 61 02 40	н		ii .	Black Model		G
*	11	CB 60 81 00	Lid Cover		リッドカバー			
*	"	CB 60 91 30	н		#	Black Model		G
*	12	CB 61 01 30	Push Button		プッシュボタン			
*	"	CB 61 01 40	"		н	Black Model		G
*	13	CB 61 01 50	Operation Button A		P-オペポタンA			
*	_	CB 61 01 60			" A	Black Model		G
*		CB 61 01 70			, B			
*		CB 61 01 80			" B	Black Model		G
*		CB 61 01 90			" C			
*		CB 61 02 00			" С	Black Model		G
*		CB 60 81 50		#1	ロッド, REW			
*	_	CB 60 81 60		#2	" PLAY	-		
*		CB 60 81 70		#3				
*		CB 60 81 80		#4	" STOP	-		
*		CB 60 81 90		#6	" REC			
*		CB 60 82 00		#5	# MUTE			
*	-	BA 08 24 70			ダブルツマミL	<del>                                     </del>		
*	_	BA 08 29 10			" L	Black Model		G
*		BA 08 24 80	· · · · · · · · · · · · · · · · · · ·		" R	Disast 84		
*		BA 08 29 20			# R	Black Model		G
*		AA 61 05 70			アース金具 トップカバー	<del>                                     </del>		
*		AA 61 06 10 AA 61 13 00			, , , , , , , , , , , , , , , , , , ,	Black Madel	+	
- ₹ [		AA BI 13 00   lew Parts (新語	<del></del>			Black Model		G

Ref. No.		Part	t No		Descript	ion	(部 品 名)	Remarks	Common	Markets
26	NR	60	69	60	Bottom Cover Unit	<u> </u>	ボトムカバーユニット	<del> </del>	model	
27		-			Cord Clamper		コードクランパー			
28	-	1	<u>,                                     </u>		Bind Head Tapping Screw	3×10(ZMC2-Y)	鉄バインドタッピングネジ			
29				40			"	Power		
	-	<u></u>	-	:	· · · · · · · · · · · · · · · · · · ·		" "	Transtormor		
	EN			-		3×6 ( " )		Type-II		
	+	-	<del></del>	:	B-W Head P-tyte Screw	4×12(FCM3-3g)	鉄B.W Pタイトネジ	Top Cover		
	-	•			Plastic Rivet	φ3	プラスチックリベット			
	СВ	<del></del>	<del>: -</del>			φ3.5	li .			
	СВ	•	-				"			
	+	<del></del>	<del></del>	<del>: 1</del>	Plain Washer	φ3(ZMC2-Y)	平座金			
	+	-	-		Leg		脚			
37	СВ	61	22	40	Cushion, C.Board		シートクッション			
	1	:								
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	$\vdash$	<del></del>	<del></del>							
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							† <del></del>	+		



## PARTS LIST (Mechanism)



Ref.	Part No.	Description		(部 品 名)	Remarks	Common	Markets
300	SM 60:18 00	Casstte Mechanism	TM-5A(S)	カセットメカ総組立	45.25%	model	1326
24.2	A STATE OF THE STA	distribution de	TM5A(B)	•	Black Model		G
1	PB 06 21 50	CONTRACTOR OF THE SECOND CONTRACTOR OF THE SEC		テープカウンター			
2	<del></del>	REC/Playback Head		録再ヘッド			
3	GF 00 01 80			消去ヘッド		K-550	
4	KA 60 05 20			リーフSW		K-560	
5	BA 08 18 90		N3.5 Gray	ブラインドプレートT			
	BA 08 28 30		N3.5 Black	"	Black Model		
6	CB 06 88 80		φ3.5 Black	<i>"</i> プラスチックリベット	Black Wodel		G
7	NB 60 58 30		N3 Gray	ハウジングAss'y			
	<del>                                     </del>				<b>.</b>		
	NB 60 58 20	7	N3 Black	" DT = = "11 > #'	Black Model		G
8	AA 60 88 80			BT-スプリング			
9	NB 60 33 50			BTディスクAss'y			
10	CB 60 61 50			リールキャップ			
11	<del> </del>	Mounting Plate, Motor		モーター取付座		K-550	
12	AA 60 66 50	<u> </u>	(ZMC2)	モーター取付ネジ		K-560	
13	<del>                                     </del>	Capstan Motor	MMi-6	キャプスタンモーター			
14	NB 60 58 00			ブレーキAss'y			
15	CB 60 61 60			カムフォロア			
16	CB 60 61 70			Play-トリガ			
17	<del>                                     </del>	Solenoid Ass'y		ソレノイドAss'y			
18	CB 60 61 80	Cam		カム			
19	AA 60 88 90	Cam-Spring		カムスプリング			
20	CB 60 75 90	Senser, Lid		リッドセンサ			
21	CB 60 61 90	Stop-Triger		STOP-トリガ			
22	CB 60 62 10	Washer	PW-2.5-7	ポリスライダーワッシャー			
23	CB 60 62 00	Rivet		リベット			
24	NB 60 33 70	Flywheel Ass'y		フライホイールAss'y			
25	CB 60 62 20	Main Belt		メインベルト			
26	NB 60 79 10	Back Plate Ass'y		バックプレートAss'y			
27	Ei 03 01 00	Bind Head Tapping Screw	3×10	鉄バインドタッピングネジ			
28	JC 00 07 20	Reel Motor	BFS9B	リールモーター			
29	ED 02 62 00	Bind Head Screw	2.6×20(ZMC2-Y)	鉄バインド小ネジ			
30	NB 60 33 90	Gear Ass'y		ギヤAss'y			
31	CB 60 62 30			ヘッドベース			
32	<del> </del>	Pinch Roller Ass'y		ピンチローラーAss'y			
33	AA 60 89 10			リターンスプリング			
34	AA 60 89 20			ヘッドベーススプリング			
35	AA 60 89 30			RPHスプリング			
36	<del></del>	Bind Head Screw	2×12(ZMC2-Y)	鉄バインド小ネジ	R/P Head		
37	CB 60 62 40			カウンターベルト	.,, . 115au		<u> </u>
38	<del></del>	Lever, Play Look		プレイロックレバー			
39	NB 60 33 40			ダンパーAss'y			
40	CB 60 61 10			ロックレバー			
41	CB 08 26 10		_			K-550	
42		Spring, Housing		キャプスタンワッシャー		K-560	
43	<del></del>			ハウジングSp			
├		Guide R, Cassette		カセットガイドR			
44		Guide L, Cassette		カセットガイドレ			
45	<del>                                     </del>	Rell Base Ass'y		リール台Ass'y			
46	NX 60 00 60	Chassis, Mechanism		メカシャーシサブAss'y			
<u> </u>	<b>.</b>				for Town		
	EJ :02:60:80	Pan Head Tapping Screw	2.6×8(ZMC2-Y)	鉄ナベタッピングネジ	for Tape Counter		

### ■PARTS LIST (Circuit Board)

Re No		Description	<u> </u>	(部 品 名)	Remarks	Common	Ma	ırkets
*	NA 07 89:00	Main Circuit Board	e collection of the	メインシート	1.0		<b>2</b>	. (2.5)
* 🔯	NA 07 89 10	)		The second second			U.C	
* 🔝	NA (07 (89) 20	) en	34.97				G, B	
*	NA 07 89 30	) te la	V 6 20	•			R, A	
100	NA 07 89 40	) Programmy and Marine			Black Model		G	24
C10	01 UW 84 71 00	Electroytic Capacitor	10μF 25V	ケミコン				
	3 FM 51 64 70		4.7μF 25V	Zコン				
C10	5 F G 41 24 70	Ceramic Capacitor	470pF 50V(K)	セラコン				
C10	9 F G 41 12 20	Ceramic Capacitor	22pF 50V(K)	セラコン				
		Mylar Capacitor	0.012µF 50V(J)	マイラーコン				
		Electrolytic Capacitor	220μF 6.3V	ケミコン			·	
	5 UW 84 71 00		10μF 25V	"				
		Mylar Capacitor	0.0068µF 50V(J)	マイラーコン				
		Ceramic Capacitor	150pF 50V(K)	セラコン				
C 12 C 12	1 UW 96 54 70	Electrolytic Capacitor	0.47µF 50V	ケミコン				
C12	<sup>3</sup> FG 71 32 70	Mylar Capacitor	0.0027µF 50V(J)	マイラーコン				
C12 C12	5 F G 41 31 00	Ceramic Capacitor	0.001μF 50V(K)	セラコン				
C12 C12	7 UA 25 35 60	Mylar Capacitor	0.0056µF 50V(J)	マイラーコン		***		
C12 C13	9 UA 25 34 70	"	0.0047µF 50V(J)	"				
C13 C13	1 UW 84 71 00	Electrolytic Capacitor	10μF 25V	ケミコン				
		Mylar Capacitor	0.027µF 50V(J)	マイラーコン				
C13 C13	5 UW 84 71 00	Electrolytic Capacitor	10μF 25V	ケミコン				
		Mylar Capacitor	0.1μF 50V(J)	マイラーコン				
C13 C14	9 FM 42 53 30	Electrolytic Capacitor	0.33μF 50V	Zコン				
C14 C14	1 UW 83 82 20	И	220μF 16V	ケミコン				
C14 C14	<sup>3</sup> F G 41 28 20	Ceramic Capacitor	820pF 50V(K)	セラコン				
		Electrolytic Capacitor	2.2μF 50V	ケミコン				
C14 C14	7 UW 86 61 00	n	1μF 50V	N			·	
C15	UA 25 36 80	Mylar Capacitor	0.0068µF 50V(J)	マイラーコン			······	
	FA 15 33 90		0.0039μF 50V(J)	#				
- 15	UW 84 71 00	Electrolytic Capacitor	10μF 25V	ケミコン				
C15	UW 86 61 00	n .	1μF 50V	11				
		Mylar Capacitor	0.1μF 50V(J)	マイラーコン				
C16:	UW 96 63 30	Electrolytic Capacitor	3.3μF 50V	ケミコン				
C164	UW 94 72 20	п	22μF 25V	п				
C16	UW 91 74 70	"	47μF 6.3V	"				
_	7 UW 84 71 00	"	10μF 25V	"				
	UK 16 61 00	"	1μF 50V	B.Pコン				
	UW 84 71 00	n	10μF 25V	ケミコン				
	UW 91 81 00	"	100μF 6.3V	Н				
	UW 94 81 00		100μF 25V	"				
			0.01μF 50V(Z)	セラコン				
	<del>1 -                                   </del>		47μF 25V	ケミコン -				
	UW 84 71 00		10μF 25V	,_				
	<del></del>		0.01μF 50V(Z)	セラコン				]
			330μF 6.3V	ケミコン				
C180	UW 84 71 00	,	10μF 25V	,				]
C102	1110/104 02 20	Electrolytic Oit	220 5 251					]
	UW 94 64 70		220µF 25V	ケミコン				
	<del></del>		4.7μF 25V	**************************************				
	New Parts (新音		0.0027μF 100V(J)	ポリプロコン ECQ-P				

Ref.	Part No.	Description		(部 品 名)	Remarks	Common model	Markets
No.	UW 94 64 70	Electrolytic Capacitor	4.7μF 25V	ケミコン			
		Mylar Capacitor	0.01μF 50V(J)	マイラーコン			
	UA 25 42 70	"	0.027μF50V(J)	"			
1		Electrolytic Capacitor	220µF 25V	ケミコン			
	UW 86 61 00	"	1μF 50V	#			
	UW 95 91 00	"	1000μF 35V	"			
	UW 94 92 20	<u>"</u>	2200μF 25V				
	<del></del>		0.01µF AC250V(DE)	セラコン			J
		Ceramic Capacitor	0.01µF AC400V(DE)	"			R, A
	Fi 33 41 00	"	0.01μF MY(DE)	ıı ı		<del> </del>	U, C
	Fi 34 41 00	,	0.01µF AC250V	MPコン			G, B
	FR 16 41 00		0.047µF 50V(K)	マイラーコン		<del> </del>	
		Mylar Capacitor	0.047μF 50V(K)			<del> </del>	
		Ceramic Capacitor		セラコン		<del> </del>	
	_ + + + + -	Electrolytic Capacitor	10μF 25V	ケミコン			
	UW 94 74 70	"	47μF 25V	"			
	UW 84 71 00		10μF 25V	"			
	I	Ceramic Capacitor	0.1μF 50V(K)	セラコン	ļ	-	
		Electrolytic Capacitor	100μF 10V	ケミコン			
/C101	FY 00 02 10	Trimmer Capacitor	180pF	トリマーコン 2連	ļ	-	
						-	
T101 T102	GE 20 04 10	MPX Coil		MPXコイル			
	GE 90 06 10		85K	トラップコイル		<u> </u>	
	GE 90 06 30		85K	OSCコイル			
L 101	GE 90 02 60	Coil	12mH	固定コイル			
L 103	GE 90 08 10	"	27mH	"			
L 104							
R 101	HJ 35 41 00	Carbon Resistor	10Ω RD25S	カーボン抵抗			
R 103	HJ 35 73 90	н	39ΚΩ "	ıı .			
R 104 R 105	HJ 35 63 90	"	3.9ΚΩ "	"			
R 106 R 107	HJ 35 76 80	"	68KΩ "	"			
R 108 R 109	HJ 35 51 20	"	120Ω ″	"	<del>                                     </del>		
R110 R111	HJ 35 81 50	"	150ΚΩ "	"			
			1ΚΩ "	"			
R114 R115	HJ 35 61 00	"	270ΚΩ "	н			
R116	HJ 35 82 70	"	8.2ΚΩ "	"		+	
R118	1113 33 00 20	"	560Ω "	"			
R 120	HJ 35 55 60	"	-	"		<u> </u>	
~124	HJ 35 71 00	"	10ΚΩ "		-	-	
R126	HJ 35 81 00	"	100ΚΩ "	"			
R128	HJ 35 68 20	"	8.2ΚΩ "	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	HJ 35 71 00		10ΚΩ "	"	_	-	
H131 R132	HJ 35 61 00	#	1KQ "	"			
н133 R134	HJ 35 63 30	#	3.3ΚΩ "	"		-	
R135 R136	HJ 35 51 80	"	180Ω ″				
R137 R138	HJ 35 74 70	) "	47KΩ "	"			-
R139 R140	HJ 35 71 00	"	10ΚΩ "	"		<u> </u>	
R141 R142	HJ 35 81 80	"	180ΚΩ "	"			
R143 R144	HJ 35 82 70	"	270ΚΩ "	"		<u> </u>	
R145	HJ 35 61 00	)	1ΚΩ "	"			<u> </u>
R147	HJ 35 54 70	) "	470Ω ″	"			
R151	HJ 35 63 30	) "	3.3ΚΩ "	"			
		) "	<del></del>	1			

Ref.	Part No.	Description			(部 品 名)	Remarks	Common	Markets
	HJ 35 71 00	Carbon Resistor	10ΚΩ	RD25S	カーボン抵抗			
R159	HJ 35 63 90	"	3.9ΚΩ	"	#	1		
R161	HJ 35 72 20	n	22ΚΩ	"	11			
R163	нЈ 35 53 30	"	330Ω	. "	"	1		
R165	HJ 35 72 70	"	27ΚΩ	,,	<i>i</i>			
R166	нј 35 55 60	"	560Ω	,,	#	<b>†</b>		
R169	HJ 35 71 50	n	15ΚΩ 🤻	<i>y</i>	,,			
R170	HJ 35 62 20	"	2.2ΚΩ	"	"			
R172	HJ 35 64 70	"	4.7ΚΩ	"	n			
R175	HJ 35 72 20	n	22ΚΩ	"	"		<u> </u>	
R179	HJ 35 71 00	n	10ΚΩ	n	n .			
R181	HJ 35 74 70	н	47ΚΩ	"	n .			
R183	HJ 35 61 00	"	1ΚΩ	"	n			
R185	HJ 35 51 80	n	180Ω	"	"	<u> </u>		
R 187	HJ 35 71 00	"	10ΚΩ	"	"			
-	HJ 35 78 20	"	<b>82Κ</b> Ω	"	"		1	
	HJ 35 64 70	#	4.7ΚΩ	<i>"</i>	n			
	HJ 35 62 20	n .	2.2ΚΩ	"	и		†	
	HJ 35 61 00	"	1ΚΩ	"	н			
	HJ 35 64 70	"	4.7ΚΩ	n	"			
	HJ 35 61 50	"	1.5ΚΩ	"	"			
	HJ 35 64 70	"	4.7ΚΩ	"	"			
	HJ 35 71 00	n	10ΚΩ	"	#			
		Metal Oxide Film Resistor	39Ω	2P	酸金被膜抵抗	1		
ļ		Carbon Resistor	3.3ΚΩ	RD25S	カーボン抵抗		1	
R 204	HJ 35 71 00	Carbon Resistor	10ΚΩ	RD25S	カーボン抵抗		1	
N205								
R208	HJ 35 65 60	Carbon Resistor	5.6ΚΩ	RD25S	カーボン抵抗			
	HJ 35 61 80	н	1.8ΚΩ	"	rr .			
R211	HJ 35 56 80	н	680Ω	"	11			
	HJ 35 78 20	И	<b>82K</b> Ω	"	"			
	HJ 35 51 00	"	100Ω	"	н			
R215	HJ 35 52 70	"	270Ω	. "	"			
	HJ 35 54 70	"	470Ω	"	"			
	HJ 35 53 30	н	330Ω	"	"			
	HJ 35 51 80	tr .	180Ω	#	"			
	HJ 35 63 90	н	3.9KΩ	"	"			
<u> </u>	HJ 35 31 00	н	1Ω	n	"			
	HJ 35 51 00	#	100Ω	"	,,			
	HJ 35 71 20	"	12KΩ	"	"			
-	<del>                                     </del>	Flame Proof Carbon Resistor	10Ω		不燃化カーボン抵抗			
R224	HJ 35 53 30	Carbon Resistor	330Ω	RD25S	カーボン抵抗			
	HJ 35 61 00		1ΚΩ	"	n .			
	HJ 35 73 30	н	33ΚΩ	"	"			
	HJ 35 74 70	IJ	47ΚΩ	"	"			
R233 R234	HJ 35 62 70	Carbon Resistor	2.7ΚΩ	RD25S	カーボン抵抗			
1	HJ 35 62 20		2.2ΚΩ	"	н			
	HJ 35 81 00		100K	"	"			
R237 R238	HJ 35 61 00	"	1ΚΩ	"	"			

Ref. No.	Part No.	Descript	tion	(部 品 名)	Remarks	Common model	Markets
VR101 VR102	HT 17 02 90	Semi Variable Resistor	B20K V8K4-11	半固定VR	] Inter-		-
	HT 37 00 80	"	" EVN-K4A	#	∫ changeable		
VR103 ~ 106	HT 17 02 70	Semi Variable Resistor	B5K V8K4-11	半固定VR	Inter-		
	HT 37 00 50	"	B5K EVN-K4A	"	∫ changeable		
VR107	HS 41 16 00	Variable Resistor	50K×2 2-2	VR 2軸2連			
TR101 ~ 104	i C 23 20 30	Transistor	2SC2320L	トランジスタ			
TR105	i C 23 20 10	#	2SC2320(E,F)	,	Inter-		
	i C 26 34 00	n	2SC2634(R,S,T)	,,	∫ changeable		
	i D 06 55 00	,,	2SD655 (D,E,F)	,			
TR109	i C 23 20 10	"	2SC2320(E,F)	,,	Inter-		
	i C 26 34 00	"	2SC2634(R,S,T)	#	changeable		
	i A 10 20 00	"	2SA1020	"			
	i D 08 80 00	"	2SD880	n			
	i A 09 99 10	,,	2SA999 (E,F)	"	Inter-		
TR115	i A 11 27 00	,,	2SA1127(R,S,T)	"	changeable		
	iC 13 84 00	"	2SC1384	<i>n</i>		<del>                                     </del>	
	i D 04 00 00		2SD400	#			
	i C 19 83 00	n	2SC1983	н		+ +	
INIIB	10 19 63 00	n .	2001000			<del>                                     </del>	
TD120	iC 26 55 00	Transistor	2SC2655(O,Y)	トランジスタ		<del>                                     </del>	
			IS1555	ダイオード	1	<del>                                     </del>	
	iF 00 00 40		IS2473	"	Inter-   changeable		·
" D 103	iF 00 06 70			,,	· · ·		
	iF 00 03 30		IS188FM1	"	1.		
	iF 00 00 40		IS1555	"	Inter-	-	
	iF 00 06 70		IS2473	"			
	iF 00 00 40	,	IS1555		Inter-   changeable		
<i>"</i>	iF 00 06 70		IS2473	#	1,		
	iH 00 05 90		10E-1	"	-		
	iF 00 00 40		IS1555	"	Inter- changeable		
	iF 00 06 70		IS2473	"	)		
	iH 00 05 90		10E-1	"			
	iF 00 16 00		HZ-18-3	ツェナーダイオード			
	iH 00 09 70		IS2371A	ダイオードブリッジ			
	iH 00 05 90		10E-1	ダイオード			
D124	iF 00 16 70	Zener Diode	RD6,8EB2	ツェナーダイオード			
,							
	iF 00 16 70		RD6,8EB2	ツェナーダイオード			
	iF 00 38 90		HZ4C2	"			
	iF 00 00 40		IS1555	ダイオード	Inter-		
"	iF 00 06 70		IS2473	"	Juliangeable		
	iG 03 46 00		NE646N	IC			
	iG 05 82 00		M5218L	"			
IC104	iG 04 25 00	N	NJM4556D	"			
IC105	iG 05 50 00	И .	M54532	"		<b> </b>	
IC106	iG 03 04 50	"	DN6838	"		1	
					_	1	
		Switch, REC/PLAY	12-Circuit	録再スイッチ		-	
	KA 80 29 10		4-Action	ブッシュSW			
SW103	<del></del>	Power Switch		パワーSW 4連			J
*	KA 80 29 70	"		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			U, C
"	KA 80 29 80	И		"	1		R, A, G, B,
W104	KA 80 29 00	Push Switch	6-Action	プッシュSW 6連			

1	Ref. Part No.	Descripti	on	(部品名)	Remarks	Commor	Market
F 1	101 102 KB 00 03 30	Fuse	1A 250V	ヒューズタイラッシュ			J, R, A
	" KB 00 10 60	н	1A 250V UL ST-4	ヒューズ			U, C
Ľ	" КВ 00 06 70	ff f	T630mA 250V	ヒューズ⑤タイムラグ			G, B,
JK1 JK1	101 102 LB 30 15 40	Mic Jack		マイクジャック		<u> </u>	
1	" LB 30 16 10	II .		n	Black Model		G
JK1	103 LB 30 15 30	Headphones Jack		ヘッドホンジャック			
,	" · LB 30 16 00	"		"	Black Model		G
PJ1	101 LB 40 08 00	Pin Jack	4P	4Pピンジャック			
	LA 00 21 40	Wrapping Terminal i-type	2P P=10	i型ラッピング端子板			
	LA 00 21 50	"	3P P=10	"			· · · · · · · · · · · · · · · · · · ·
	LB 20 13 90	Base Pin	2P TEB2P-SHF 2.5 Pitch	2.5ピッチベースピン			
	LB 20 18 80	Fuse Holder Pin	PC-FHI	ヒューズホルダーピン		-	
-	LB 30 07 30		3P TEB3P-SHF	2.5ピッチベースピン			
	LB 40 05 70	"	2.5 Pitch 4P_TEB3P-SHF	"			
	L B 60 29 40	"	2.5 Pitch 6P TEB3P-SHF 2.5 Pitch	,,			
	<del></del>	Holder for Main C.B	2.5 Pitch	メインシート金具	<del>-</del>	-	
-		Spring, REC Lever			<del> </del>		
	BA 08 09 10			RECレバースプリング	-	W 550	
				放熱板		K-550	
	CB 60 88 10			プラスチックリベット		R-1000	
	CB 60 82 30			RECレバー			
	CB 60 82 40			S-PLレバー			
	CB;60;99;00			H-ICホルダー			
		Holder, Switch		SWホルダー			
	J F 00 03 40	-W	TDS-05B	シャットオフソレノイド			
	E D 02 00 30	Bind Head Screw	M2×3	バインド小ネジ			
	E D 03 00 40	"	M3×4	n			
	E D 03 00 60		3×6 (ZMC2-Y)	"			
	AA 61 12 90	Metal Fitting		PJ金具			
	LB 60 28 20	Base Pin	BS6P-SHF	2.5ピッチベースピン	暫定基板用		
	Mi 07 67 10	Board in & Board in Ass'y	3P &= 160	ボードイン&ボードインAss'y			
				The state of the s			
	LA 00 37 90	Wrapping Terminal	2P P=10	L型ラッピング端子板			U,C,G,B,
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